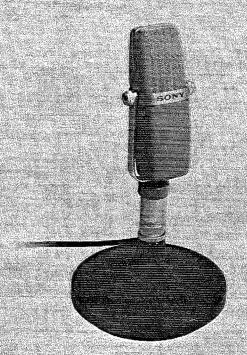
Serial No. 5481 and later



FET CONDENSER MICROPHONE

SPECIFICATIONS

9 V dc, battery size "006P" or equiv. Battery:

(IEC designation 6F22)

Standard operating voltage: 9 V Power Supply:

Minimum operating voltage: approx. 7.5 V Current drain: less than 2 mA (with battery)

less than 5 mA

(with external power supply)

Continuous battery duration: more than 200 hours with a 006P dry battery

Accepts external power supply of 24 - 54 V dc

Directivity:

Uni-directional and omni-directional

Output Impedance:

250 ohms ± 20% (balanced)

Output Level:

Position of the Pad Switch	Output impedance	Effective output level*1	Open circuit output level
[0]	250 ohms	-47.8 dBm	0.4 mV/μbar
[8 dB]	250 ohms	-55.8 dBm	0.16 mV/μbar

Deviation ± 2 dB

⁻¹ 0 dBm = 1 mW/10 μbar, 1,000 Hz

Frequency Response: 30 Hz - 16,000 Hz

S/N ratio: better than 50 dB (1,000 Hz. Noise Level:

1 μbar)

Inherent noise: less than 24 dB SPL (0 dB = $2 \times 10^{-4} \mu \text{bar}$) Wind noise*²: less than 44 dB SPL

Induction noise of external magnetic

field*3: 5 dB SPL/m gauss

 *2 Wind noise is the value measured by applying a wind velocity of 6.6 ft./s. from all directions to the microphone. The mean value is taken and converted to the equivalent input sound level.

 $(0 dB = 2 \times 10^{-4} \mu bar)$

*3 The external magnetic field induction noise is measured with the microphone placed in the alternating magnetic field of 50 Hz, 1 milligauss. The maximum noise value is taken and converted to the equivalent input sound level. (0 dB = $2 \times 10^{-4} \mu \text{bar}$)

- Continued on next page -



Maximum Sound Pressure Input Level*4:

140 dB SPL;

This is the maximum input level which produces less than 1 % wave distortion at the output with 1,000 Hz, and less than 1 % intermodulation distortion at the output

signal with 70 Hz - 7 kHz.

Dynamic Range:

Acceptable Preservation Temperature:

-4° to 140°F (-20° to 60°C)

Proper Operating

Temperature: 32

32° to 140°F (0° to 60°C)

Approx. 5.8 mm (15/41 inches) dia. 4-conductor shielded cable

with a CANNON XLR-3-12C plug,

6 m (20 feet) long

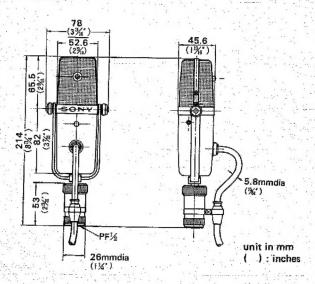
Approx. 116 dB

Mounting Thread: PF%

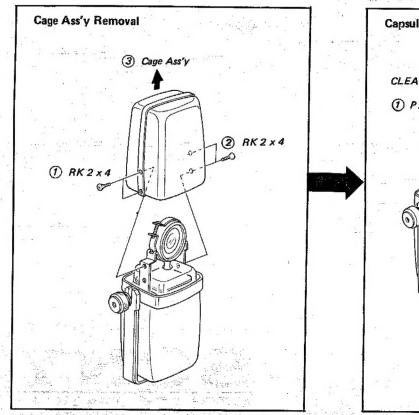
Weight:

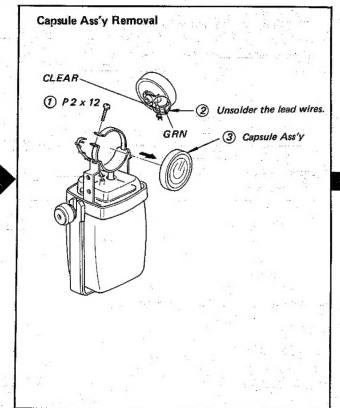
650 g (1 lb 7 oz) without cable

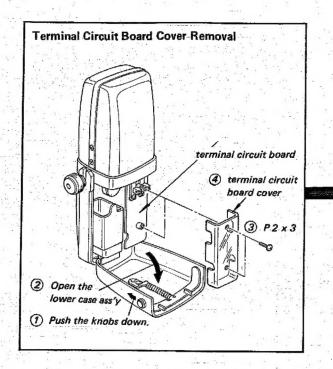
Dimensions:

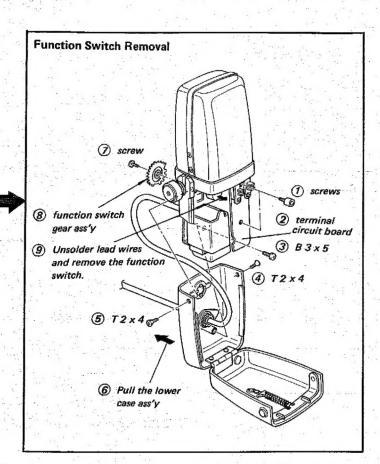


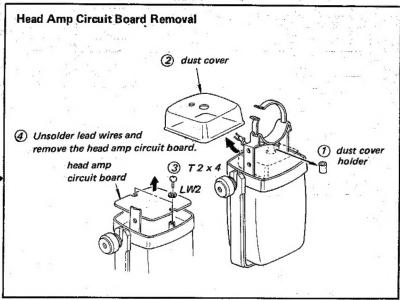
SECTION 1 DISASSEMBLY











SECTION 2 DIAGRAMS

2-1. MOUNTING DIAGRAM

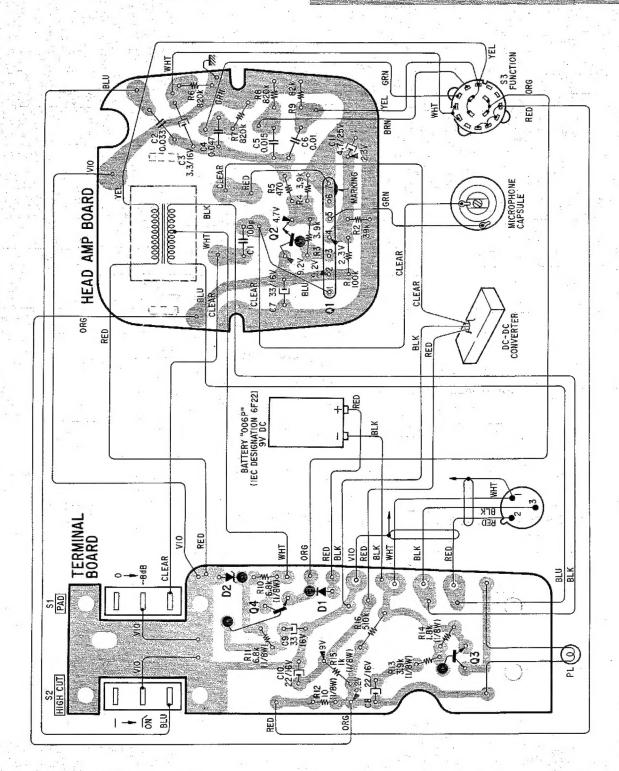
- Conductor Side -

CAUTION

The head amp board has been carefully adjusted at the factory.

If some trouble occurs on it, replace the head amp board as a part.

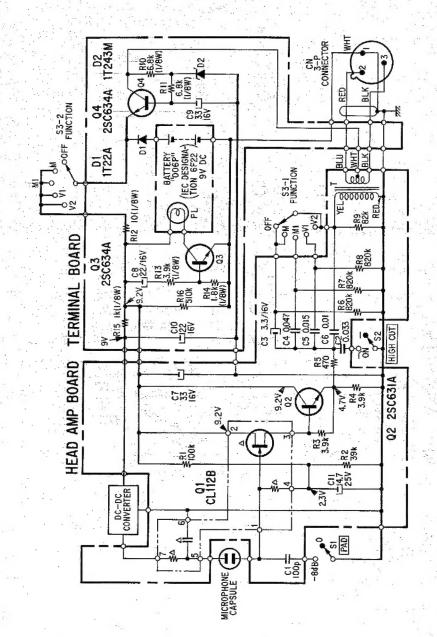
The parts on the head amp board are not individually available.



Note: • 關連關係關係: B+ pattern

SCHEMATIC DIAGRAM

03, 4: 2SC634A



Readings are taken with a 20,000-ohm-per-volt VOM.

Voltage variations may be noted due to normal production tolerances. Switch

Ref. No.	Switch	Position
S1	PAD	0
25	нен сот	OFF
S3	FUNCTION	OFF

Voltages are do with respect to ground unless otherwise $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$: internal component. ☐: panel designation. : B+ bus.

Ø

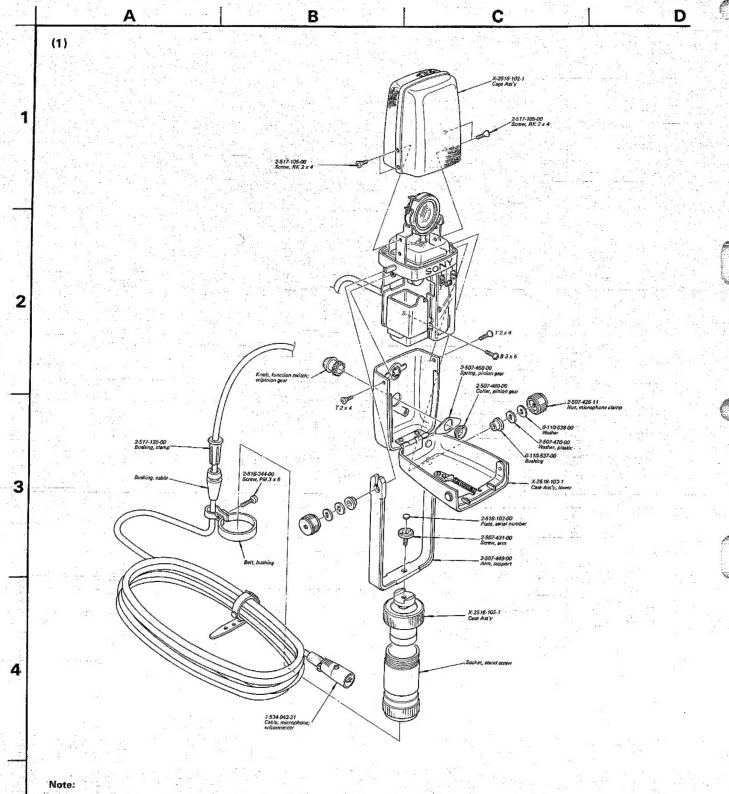
noted.

• All capacitors are in μF unless otherwise noted, $pF = \mu \mu F$ 50WV or less are not indicated except for electrolytics.

All resistors are in ohms, XW unless otherwise noted.

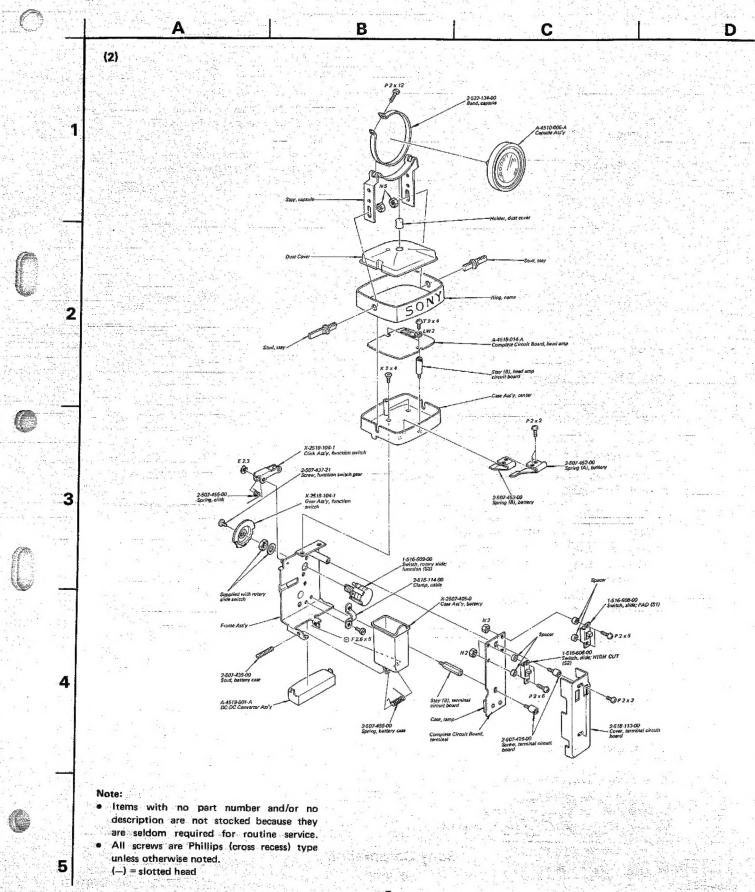
D2: 1T243M

SECTION 3 EXPLODED VIEWS



- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
 (-) = slotted head

5



SECTION 4 ELECTRICAL PARTS LIST

ACCESSORIES & PACKING MATERIALS

Description

Screwdriver

Carton

Adaptor, microphone stand

Bag, plastic; carrying case

Bag, plastic; microphone

Manual, instruction

Part No.

0-110-572-00

2-052-522-00

2-522-235-00

2-522-237-11

2-599-080-21

3-701-628-00

Ref. No. Part No. Description

COMPLETE CIRCUIT BOARD

A-4518-014-A Head Amp

SEMICONDUCTORS -

Transistors

Q3,4 2SC634A

Diodes

D1 1T22A D2 1T243M

CAPACITORS

All capacitors are in µF and electrolytic.

C8 1-121-990-11 16V 22 C9 1-121-403-11 33 16V C10 1-121-990-11 16V

RESISTORS

All resistors are in ohm. $k\Omega = 1000\Omega$

R10, 11 1-202-032-11 6.8k 1/8W composition R12 1-201-856-11 10 1/8W composition R13 1-202-018-11 3.9k 1/8W composition R14 1-201-650-11 1.8k 1/8W composition R15 1-201-634-11 1k 1/8W composition R16 1-202-448-11 510k 1/4W composition

SWITCHES

S1, 2 1-516-608-00 Slide, PAD, HIGH CUT **S3** 1-516-609-00 Rotary Slide, function

MISCELLANEOUS

PL 1-518-268-00 Lamp, 4.5V, 40mA A-4510-006-A Capsule Ass'y

A-4519-001-A DC-DC Converter Ass'y

1-534-943-21 Cable, microphone; w/connector

Sony Corporation

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